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Chow et al.

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(54) **INTERACTIVE SEARCHING USING GESTURES ON ANY MOBILE SEARCH RESULTS PAGE**

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G06F 3/04883 (2022.01)
H04L 67/02 (2022.01)
G06F 3/0482 (2013.01)
H04L 67/75 (2022.01)
G06F 3/01 (2006.01)

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CPC **G06F 3/04883** (2013.01); **G06F 3/017** (2013.01); **G06F 3/0482** (2013.01); **H04L 67/02** (2013.01); **H04L 67/75** (2022.05)

(58) **Field of Classification Search**
CPC **G06F 3/04883**; **G06F 3/0482**; **G06F 3/017**; **H04L 67/02**; **H04L 67/36**; **H04L 67/75**
See application file for complete search history.

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(57) **ABSTRACT**

Disclosed herein are system, method, and computer program product embodiments for associating a gesture to a website action. In an embodiment, an application receives a user instruction to associate a website action with a user gesture such that the website action occurs upon receipt of the user gesture and the user gesture relates to user input on a user device’s display. Thereafter, based on the user instruction, the application creates and sends an interaction request to link the user gesture to the website action. The application then receives an acceptance message from the first website that indicates that the user gesture has been successfully linked to the website action.

20 Claims, 10 Drawing Sheets

200

		202		204	
	ID	Gesture		Website Action	
206A	1	Freeform #1		Menu of available actions	
206B	2	Freeform #2		Bookmark page	
206C	3	City/State/Zip Code Text		Provide/filter based on city/state/zip code	
206D	4	Year Number		Provide/filter based on year	
206E	5	Color Text		Provide/filter based on color	

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2012/0198026	A1 *	8/2012	Roy	G06Q 30/0641 709/217
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100

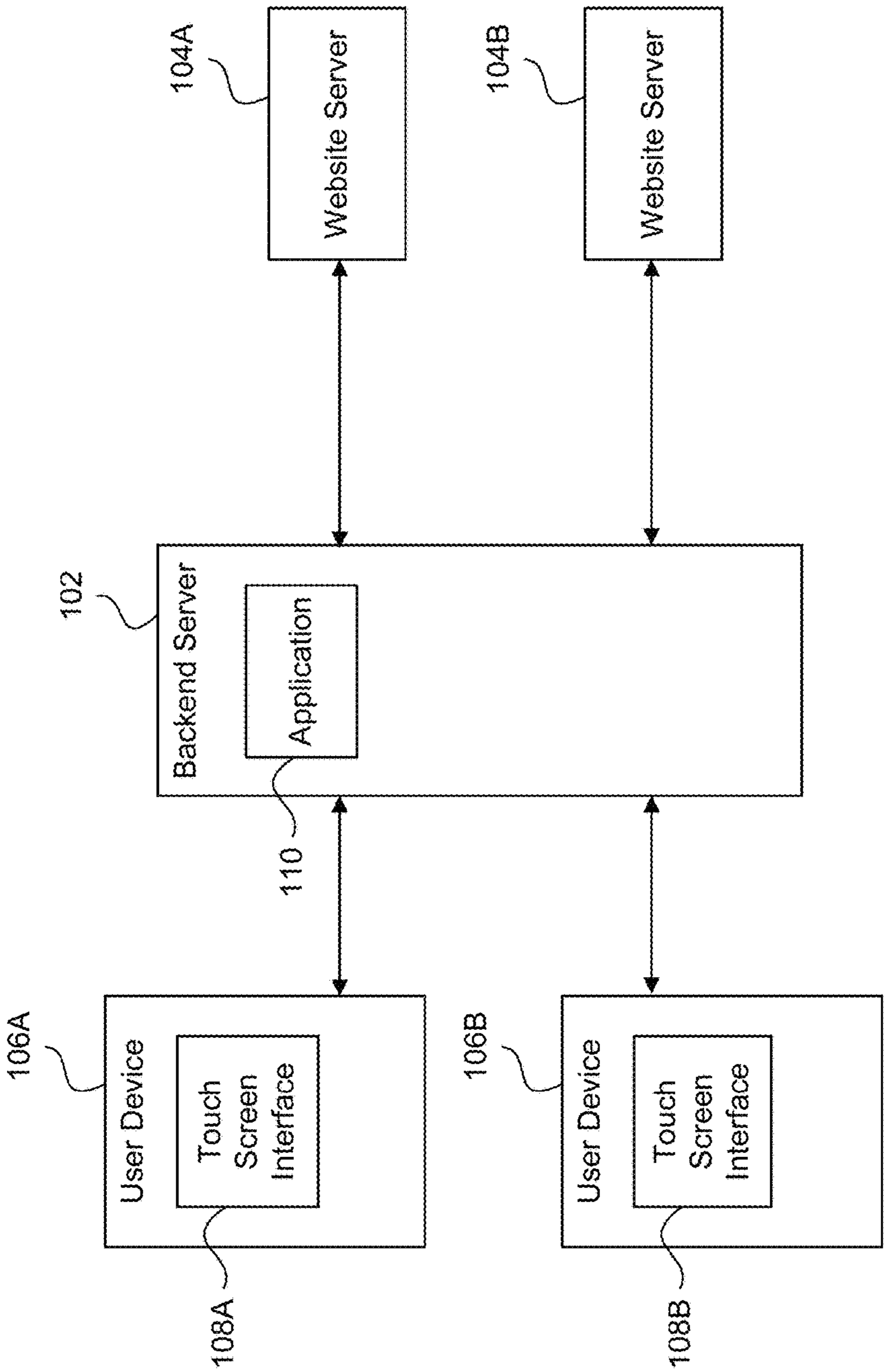


FIG. 1

200

206A 206B 206C 206D 206E	202	204	ID	Gesture	Website Action
			1	Freeform #1	Menu of available actions
			2	Freeform #2	Bookmark page
			3	City/State/Zip Code Text	Provide/filter based on city/state/zip code
			4	Year Number	Provide/filter based on year
			5	Color Text	Provide/filter based on color

FIG. 2

302

2018 / Sedan / Clear filters

Sort: Lowest Price

300A

304A Distance RADIUS 25 mi ZIP 20146

304B Condition ☐ New ☐ Used

304C Make ☐ Acura ☐ Aston Martin ☐ Audi ☐ Bentley ☐ BMW ☐ Buick

304D Model

304E Trim

304F Price

304G Year ☐ 2020 ☒ 2019 ☐ 2018 ☐ 2017 ☐ 2016 ☐ 2015

306A USED 2018 Ford Edge Titanium Battlefield Ford (Manassas VA) - Manassas, VA - 16 mi away 17/23 MPG - Heated Seats - Backup Camera \$4,050 ③ Save Get Pre-Qualified

306B USED 2011 Nissan Sentra 112,000 miles 26/34 MPG \$4,250 ③ Save Get Pre-Qualified

306C USED 2012 Chevrolet Impala LT 69,902 miles 18/29 MPG - Bluetooth \$4,477 ③ Save Get Pre-Qualified

306D USED 2013 Dodge Dart SE 86,642 miles 25/35 MPG \$4,490 ③ Save Get Pre-Qualified

FIG. 3

402

2018 / Sedan / Clear filters

400

Sort: Lowest Price

404A

Distance

RADIUS

25 mi

ZIP

20146

404B

Condition

☐ New

☐ Used

404C

Make

☐ Acura

☐ Aston Martin

☐ Audi

☐ Bentley

☐ BMW

☐ Buick

404D

Model

404E

Trim

404F

Price

404G

Year

☐ 2020

☒ 2019

☐ 2018

☐ 2017

☐ 2016

☐ 2015

USED

2018 Ford Edge Titanium

Battlefield Ford (Manassas VA) – Manassas, VA – 16 mi away

17/23 MPG – Heated Seats – Backup Camera

Save

Get Pre-Qualified

\$4,050

USED – 112,180 miles

2010 Nissan Sentra

Stohlman Volkswagen Inc – Vienna, VA – 12 mi away

26/34 MPG

Save

Get Pre-Qualified

\$4,250

USED – 69,902 miles

2012 Chevrolet Impala LT

Fitzgerald Buick Inc (Buick Pontiac GMC) (MD) – North Bethesda MD – 18 mi away

18/29 MPG – Bluetooth

Save

Get Pre-Qualified

\$4,477

USED – 86,642 miles

2013 Dodge Dart SE

Sheehy Ford of Warrenton – Warrenton VA – 24 mi away

25/35 MPG

Save

Get Pre-Qualified

\$4,490

FIG. 4

502

2018 / Sedan / Clear filters

Sort: Lowest Price

504A	Distance RADIUS 25 mi	ZIP 20146	506A
504B	Condition <input type="checkbox"/> New <input type="checkbox"/> Used		
500A	Make <input type="checkbox"/> Acura <input type="checkbox"/> Aston Martin <input type="checkbox"/> Audi <input type="checkbox"/> Bentley <input type="checkbox"/> BMW <input type="checkbox"/> Buick		
504C			
504D	Model		
504E	Trim		
504F	Price		
504G	Year <input type="checkbox"/> 2020 <input checked="" type="checkbox"/> 2019 <input type="checkbox"/> 2018 <input type="checkbox"/> 2017 <input type="checkbox"/> 2016 <input type="checkbox"/> 2015		

USED	2018 Ford Edge Titanium	Battlefield Ford (Manassas VA) – Manassas, VA – 16 mi away	17/23 MPG – Heated Seats – Backup Camera	Save	\$4,050	Get Pre-Qualified
USED	2010 Nissan Sentra	Stohlman Volkswagen Inc – Vienna, VA – 12 mi away	26/34 MPG	Save	\$4,250	Get Pre-Qualified
USED	2012 Chevrolet Impala LT	Fitzgerald Buick Inc (Buick Pontiac GMC) (MD) – North Bethesda MD – 18 mi away	18/29 MPG – Bluetooth	Save	\$4,477	Get Pre-Qualified
USED	2013 Dodge Dart SE	Sheehy Ford of Warrenton – Warrenton VA – 24 mi away	26/25 MPG		\$4,490	Get Pre-Qualified

FIG. 5

602

600

2018 / Sedan / Clear filters

Condition ☐ New ☐ Used

Sort: Lowest Price

604A Distance RADIUS ZIP 250140

604B Condition ☐ New ☐ Used

604C Make ☐ Acura ☐ Aston Martin ☐ Audi ☐ Bentley ☐ BMW ☐ Buick

604D Model

604E Trim

604F Price

604G Year ☐ 2020 ☐ 2019 ☒ 2018 ☐ 2017 ☐ 2016 ☐ 2015

606

606A

USED

2018 Ford Edge Titanium

Battlefield Ford (Manassas VA) - Manassas, VA - 16 mi away

17/23 MPG - Heated Seats - Backup Camera

\$4,050

Save

Get Pre-Qualified

606B

USED - 112,180 miles

2010 Nissan Sentra

Schlman Volkswagen Inc - Vienna, VA - 12 mi away

26/34 MPG

\$4,250

Save

Get Pre-Qualified

606C

USED - 69,902 miles

2012 Chevrolet Impala LT

Fitzgerald Buick Inc (Buick Pontiac GMC) (MD) - North Bethesda MD - 18 mi away

18/29 MPG - Bluetooth

\$4,477

Save

Get Pre-Qualified

606D

USED - 86,642 miles

2013 Dodge Dart SE

Sheehy Ford of Warrenton - Warrenton VA - 24 mi away

25/25 MPG

\$4,490

FIG. 6

702

2018 / Sedan / Clear filters

Sort: Lowest Price

704A

Distance

RADIUS

25 mi

ZIP

20146

706

704B

Condition

☐ New

☐ Used

704C

Make

☐ Acura

☐ Aston Martin

☐ Audi

☐ Bentley

☐ BMW

☐ Buick

704D

Model

704E

Trim

704F

Price

704G

Year

☐ 2020

☐ 2019

☒ 2018

☐ 2017

☐ 2016

☐ 2015

USED

2018 Ford Edge Titanium

Battlefield Ford (Manassas VA) – Manassas, VA – 16 mi away

17/23 MPG – Heated Seats – Backup Camera

Save

Get Pre-Qualified

\$4,070

USED – 112,180 miles

\$4,250

Get Pre-Qualified

Inc – Vienna, VA –

Fitzgerald Buick Inc (Buick Pontiac GMC) (MD) – North Bethesda MD – 18 mi away

18/29 MPG – Bluetooth

Save

Get Pre-Qualified

\$4,477

USED – 86,642 miles

2013 Dodge Dart SE

Sheehy Ford of Warrenton – Warrenton VA – 24 mi away

Save

Get Pre-Qualified

\$4,490

7
G
XXXXXX
LL

802

2018 / Sedan / Clear filters

Sort: Lowest Price

804A

Distance

RADIUS

25 mi

ZIP

20146

806

Condition

☐ New

☒ Used

804B

Make

☐ Acura

☐ Aston Martin

☐ Audi

☐ Bentley

☐ BMW

☐ Buick

804C

Model

☐ Acura

☐ Audi

☐ Bentley

☐ BMW

☐ Buick

804D

Trim

804E

Price

804F

Year

☐ 2020

☐ 2019

☒ 2018

☐ 2017

☐ 2016

☐ 2015

804G

USED

2018 Ford Edge Titanium

Battlefield Ford (Manassas VA) – Manassas, VA – 16 mi away

17/23 MPG – Heated Seats – Backup Camera

Save

Get Pre-Qualified

\$4,050

USED

2010 Nissan Sentra

Stohlman Volkswagen Inc – Vienna, VA – 12 mi away

11/18 MPG – Heated Seats – Backup Camera

Save

Get Pre-Qualified

\$4,250

USED

2012 Chevrolet Impala LT

Fitzgerald Buick Inc (Buick Pontiac GMC) (MD) – North Bethesda MD – 18 mi away

18/29 MPG – Bluetooth

Save

Get Pre-Qualified

\$4,477

USED

2013 Dodge Dart SE

Sheehy Ford of Warrenton – Warrenton VA – 24 mi away

25/35 MPG

Save

Get Pre-Qualified

\$4,490

FIG. 8

900

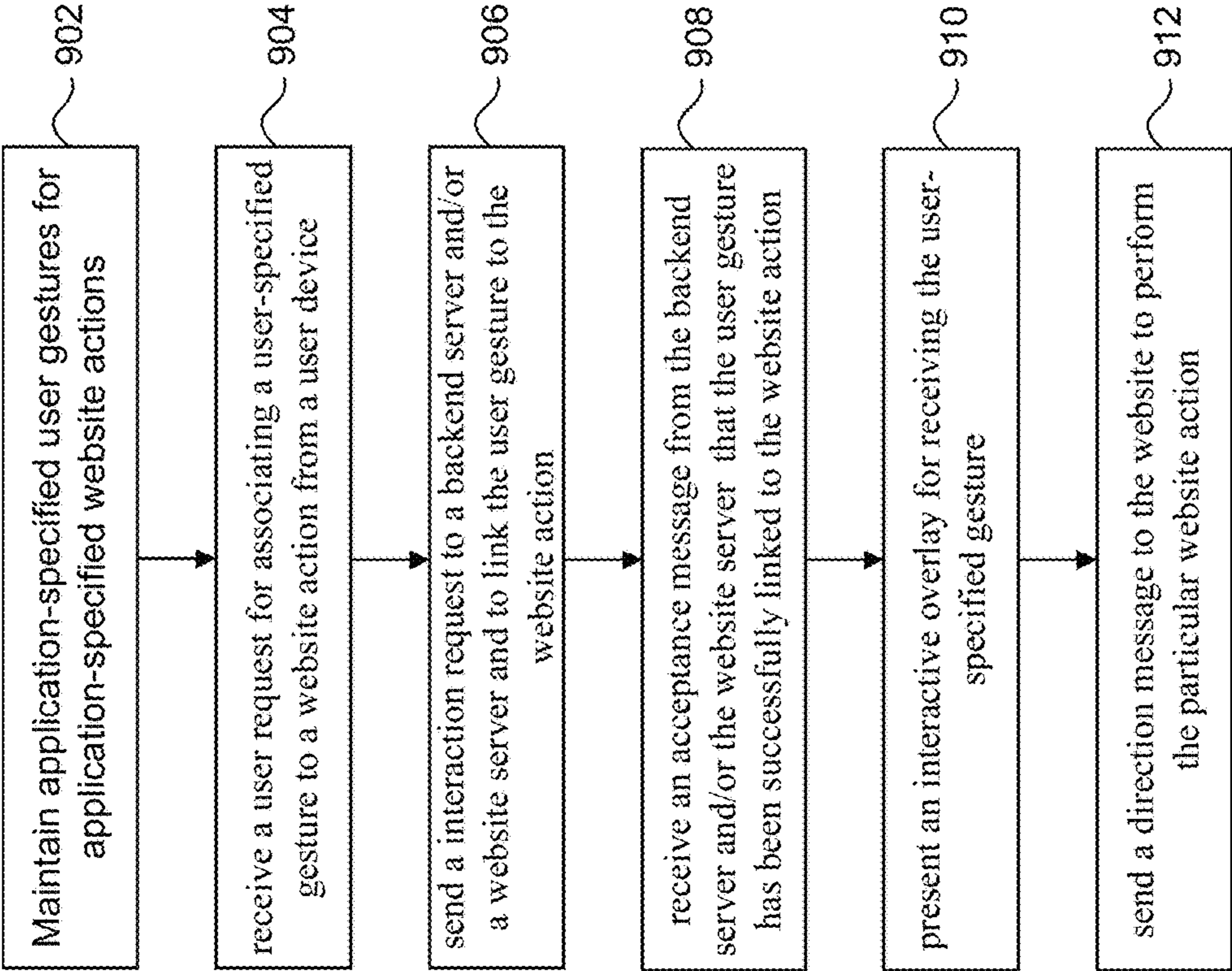


FIG. 9

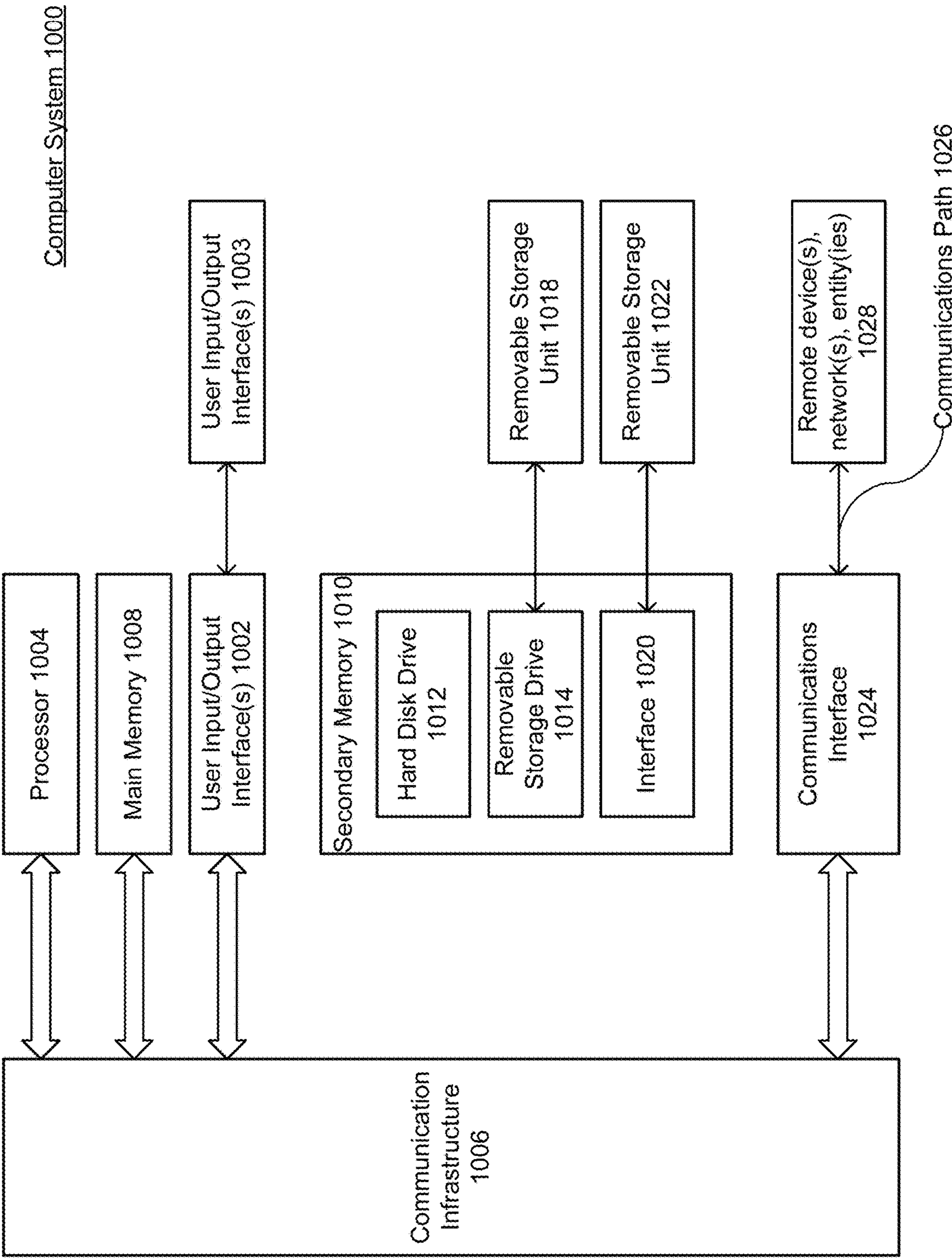


FIG. 10

1

INTERACTIVE SEARCHING USING GESTURES ON ANY MOBILE SEARCH RESULTS PAGE

BACKGROUND

Users regularly access websites on their mobile devices. In doing so, users may be presented with websites that are difficult to navigate due to the poor design of the websites. For example, users may find it difficult to click on a button (e.g., a drop-down menu) of a website due to the button being small or the website not responding well (e.g., quickly) to the user's input. Consequently, users may select the wrong button on the website or not even be able to interact with the websites. Thus, users may find it challenging to perform the website's functions. Similarly, website servers may find it challenging to provide their websites to user's mobile devices.

BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying drawings are incorporated herein and form a part of the specification.

FIG. 1 is a block diagram of a system for assigning user gestures with actions of one or more websites, according to some embodiments.

FIG. 2 illustrates a user profile of user gestures associated with actions, according to some embodiments.

FIGS. 3-6 illustrate user gestures performed on a website, according to some embodiments.

FIGS. 7 and 8 illustrate a series of user interfaces resulting from a gesture associated with multiple actions, according to some embodiments.

FIG. 9 is a flowchart illustrating a process for providing a gesture profile for a user to search a website, according to some embodiments.

FIG. 10 is an example computer system useful for implementing various embodiments.

In the drawings, like reference numbers generally indicate identical or similar elements. Additionally, generally, the left-most digit(s) of a reference number identifies the drawing in which the reference number first appears.

DETAILED DESCRIPTION

Provided herein are system, apparatus, device, method and/or computer program product embodiments, and/or combinations and sub-combinations thereof, for providing a gesture profile for a user to search a website.

FIG. 1 illustrates system 100 for assigning user gestures with actions of one or more websites, according to some embodiments. System 100 may include a backend server 102, one or more website servers 104A and 104B, and/or one or more user devices 106A and 106B. Backend server 102 and website server 104A and 104B may provide websites. User devices 106A and 106B may access the website. Accordingly, user devices 106A and 106B may include touch screen interface 108A and 108B for interacting with the websites, which may be integrated into or otherwise connected to user devices 106A and 106B. User devices 106A and 106B may be a mobile device, such as a smartphone, a personal digital assistant, or other types of handheld devices, where the touch screen interfaces 108A and 108B are displays of the respective mobile devices. Along these lines, user devices 106A and 106B may each be a mobile device that is accessible by any user or a particular user.

2

Backend server 102 and/or website server 104A and 104B may provide full websites (also known as a desktop website) designed for desktops and may thus not be optimized for mobile devices. Backend server 102 and website server 104A and 104B may also provide mobile-dedicated websites optimized for mobile devices. Along these lines, backend server 102 and/or website server 104A and 104B may provide complimentary full websites and mobile-dedicated websites for access by users on desktops and mobile devices, respectively. In some embodiments, the full websites may provide more content than their counterpart mobile-dedicated website, since desktops traditionally have a larger display screen and better resolution. Further, the full websites may present significantly more hypertext than their counterpart mobile-dedicated websites. Thus, mobile-dedicated websites may present their counterpart full website's hypertext via larger objects (e.g., bars, tabs, or buttons) for user interaction therewith. Additionally, the full website may be designed for a display device having a landscape orientation, whereas mobile-dedicated websites may be designed for display devices having a portrait orientation.

In some embodiments, users may only have access to, or prefer to access, backend server 102 and website server 104A and 104B's full websites. As a result, when user devices 106A and 106B are mobile devices, the users may not be able to adequately view the content of the full websites, for example, due to the screen size of the mobile devices and/or orientation of which they hold the mobile devices. Users may thus not be able to easily interact with the full website through user devices 104A and 104B.

Further, in some embodiments, users may find the user interface design of website server 104A and 104B's mobile-dedicated websites challenging to navigate, for example, due to the size of the user device 106A and 106B's respective touch screen interfaces 108A and 108B and/or the amount of content on the mobile-dedicated website. Also, since mobile-dedicated websites typically utilize more website pages than their full website content (e.g., due to the amount of content able to provide on mobile devices), users may seek to perform website actions associated with websites different from the one currently presented.

While the below description of embodiments will refer to website server 104A and user devices 106A as examples, one of skill in the art will recognize that the description of website server 104A applies similarly to other website servers, such as website server 104B, and that the description of user device 106A applies similarly to other user devices, such as user device 106B.

Backend server 102 may include application 110 for a user of a user device, such as user device 106A, to create a custom gesture profile. Alternatively, the user device's operating system may itself allow for creation of a custom gesture profile without a separate application 110, such that the custom gesture profile is accessible by any website or application running on the device. While embodiments herein refer to application 110, a person of skill in the art will recognize that such functionality of application 110 can be incorporated directly into the operating system of the user device, and accessible to mobile application or web developers.

The custom gesture profile can assist the user's interaction with the websites by utilizing user gestures provided by the user manually on user device 106A's touch screen interface 108A to trigger website actions. User gestures may be any physical user interaction by the user with user device 106A's manual touch screen interface 108A. Gestures may be defined by a time the user starts to interact with user device

106A's touch screen interface 108A (e.g., pressing a finger down on a mobile device's touch screen) to a time the user ends such interaction (e.g., removing the finger from the mobile device's touch screen). Example gestures may include a swipe in a particular direction, a circle, a word, a zigzag, a number, or a letter, to provide a few examples. Alternatively, gestures may be defined by the combination of sub-gestures occurring in succession within a given time threshold, such as the two crossing lines needed to form an "X" or "+" shape. In some embodiments, a gesture acts as a selection or instruction; in other embodiments, a gesture may also provide information. For example, on a vehicle search website the gesture of writing the phrase "2019" may be interpreted as a search query requesting that the search be limited to vehicles having a model year of 2019.

Application 110 may be downloadable by users of user devices 106A and 106B, for example, upon access to backend server 102 and/or website server 104A or 104B's websites. Application 110 can also be an add-on or an extension to websites provided by backend server 102 and/or website servers 104A and 104B. Accordingly, application 110 may add to or modify the capabilities of the websites. For example, as stated previously, in some embodiments, websites may or may not be capable of determining website actions corresponding to user gestures. Accordingly, when backend server 102 and/or website server 104A, for example, are not inherently capable of determining website actions corresponding to gestures, application 110 can derive the gestures based on the user's input and inform the website of the corresponding website actions. However, when backend server 102 and/or website servers 104A and 104B can determine web site actions corresponding to gestures, application 110 may permit users to provide their preferred gestures for performing certain website actions. For example, in some embodiments, upon a user's accessing backend server 102 and/or website server 104A's website, application 110 may provide the user with an option to create a custom user profile.

Backend server 102 and/or application 110 may store and/or manage a user account associated with the custom gesture profile. The user account may have a user name and password unique to the user. By creating the custom gesture profile and/or user account, a user may download the application 110 on one or more user devices (e.g., new personal mobile devices, private mobile devices, and public mobile devices) and access their saved custom gesture profile via those devices. Users may then provide the gesture indications and/or corresponding website action descriptions such that the same gestures across different websites invoke the corresponding website actions.

Accordingly, website action descriptions may correspond to any website action that the website permits. For example, in some embodiments, the website actions may relate to scrolling up or down, logging in, filtering one or more objects, and/or advancing or reverting to a particular webpage, to provide some examples. The website actions may also relate to reconfiguring the user interface design of the website, for example, by permitting moving one or more buttons and/or taskbars of the website.

Along these lines, the website actions may occur upon performing a required input, such as selecting a website button (e.g., a user interface element for logging in) and/or inputting one or more characters (e.g., a word or a phrase for searching for a particular object). Further, the website actions may occur upon the user input of a website-defined gesture. As will be discussed in more detail below, the

website-defined gesture may or may not conflict with and/or override the application-defined gesture and/or the user-defined gesture.

FIG. 2 illustrates user profile 200 having gesture descriptions 202 and associated website action descriptions 204. User profile 200 may permit one or more entries 206A-E for gesture descriptions 202 and corresponding website action descriptions 204.

In some embodiments, upon creating a user profile, application 110 (of FIG. 1) may provide a user with one or more entries 206A-E for associating gestures to website actions. Application 110 may initially provide recommended application-defined gesture descriptions 202 for performing specific website actions 204 in one or more entries 206A-E. As stated above, backend server 102 (of FIG. 1) may provide websites. Accordingly, backend server 102's website may provide website action descriptions 204 associated with the recommended application-defined gestures. Application 110 may or may not permit the user to edit the recommendations (i.e., recommended application-defined gesture descriptions 202 and/or website action description 204). If application 110 permits the user to edit the recommendations, application 110 may provide the users with a list of available application-defined gesture descriptions and/or a list of website action descriptions. Application 110 may also provide a user with an option to create a custom gesture. In doing so, application 110 may override a preassigned application-specified gesture—associated with a specific website action—with a user-specified gesture. Accordingly, the website action occurs upon receipt of the user-specified gesture instead of the preassigned application-specified gesture.

Accordingly, for each entry 206A-E, whether application 110 (of FIG. 1) provides recommendations or blank entries, application 110 may permit a user to select a particular application-defined gesture description 202 and/or an option to create a custom gesture. Upon selecting an option to create a custom gesture, application 110 may permit the user to create the gesture on the user device's touch screen interface (e.g., user device 106A's touch screen interface 108A of FIG. 1). Along these lines, in some embodiments, as illustrated, gesture descriptions 202 can be a user-provided freeform (e.g., a user provides the gestures on a touch interface of a user device) or user-inserted text. For example, the gesture description "City/State/Zip Code" can relate to a user's freeform or text input of a city, a state, and/or a zipcode, the gesture description "Year" can relate a user's freeform or text input of a year, and the gesture description "Color" can relate to a user's freeform or text input of a color.

Application 110 may also permit a user to select a particular website action description 204 from a list of available website action descriptions. Therefore, application 110 may permit the user to associate any system-defined gesture description and/or user-defined gesture description with any website action description 204. Application 110 may also permit the user to associate a select combination of gesture descriptions 202 and website action descriptions 204. For example, for user-defined gesture action descriptions or system-defined gesture action descriptions, application 110 may permit the selection of a subset of website action descriptions and vice-versa. As illustrated and discussed in more detail below, upon receiving the gesture described by gesture description "Freeform #1," application 110 can provide a menu of options provided by a website. Further, upon receiving the gesture described by gesture description "Freeform #2," application 110 can provide a bookmark of the current webpage of the website. In addition,

5

tion, upon receiving the gesture described by gesture description “City/State/Zip Code,” application 110 can provide or filter website content (e.g., cars) based on user’s text input (e.g., a city, a state, and/or a zipcode). And, upon receiving the gesture described by gesture descriptions “Year Number” and/or “Color,” application 110 can provide and/or filter website content (e.g., cars) based on the user’s inputted year and/or color, respectively. In such a way, a given gesture can not only effect specific functionality, but can also be used to provide information (e.g., provide a search filter input) to the website. For example, in some embodiments, some user gestures may be considered input for building a search query or set of filters, while other user gestures may be considered selections from a predefined list of values/parameters.

In turn, referring to FIG. 1, in creating the user profile 200 (of FIG. 2), application 110 may receive a user instruction to associate a particular application-defined gesture or user-defined gesture with a particular application-defined website action or user-defined website action. In response, application 110 may link the application-defined gesture or user-defined gesture with the application-defined website action or user-defined website action. By doing so, upon receiving a particular gesture, application 110 may determine an appropriate website action. As will be discussed in more detail below, application 110 may then send this request to various websites.

Thus, after creating user profile 200 (of FIG. 2) and a user visiting a website of backend server 102 and/or website server 104A, application 110 may send an interaction request to the website. The interaction request can inform the website that the application 110 would like to link gestures to website actions. For example, in some embodiments, the request can include the specific gestures and website actions specified in user profile 200 (of FIG. 2).

As stated above, backend server 102 and/or website server 104A may host the website. Thus, backend server 102 and/or website server 104A may provide a response (e.g., an acceptance or a denial) to the interaction request to link all or some of the gestures to website actions. For example, in some embodiments, backend server 102 and/or website servers 104A can provide their own gestures for certain website actions. Accordingly, in some embodiments, backend server 102 and/or website server 104A may not permit some or all of the user’s gestures to associate to those website actions. In turn, backend server 102 and/or website server 104A may also provide their own specified gestures, as well as those specified by the user in user profile 200 (of FIG. 2), to be linked to the same website actions.

Accordingly, upon receiving the interaction request to link user gestures to certain actions, backend server 102 and/or website server 104A may determine whether to approve or deny the interaction request. Thereafter, backend server 102 and/or website server 104A may provide a notification to application 110 of the approval or denial of the interaction request. For example, after determining to approve the interaction request, backend server 102 and/or website server 104A may send an acceptance message. Along with the acceptance message, backend server 102 and/or website server 104A may provide a different link for each combination of the user-specified gestures, application-specified gestures, and website-specified gestures with the website actions. The link for each combination may be a tag, a text path, or an identifier. Backend server 102 and/or website server 104A may also include a reference number unique to the user profile 200 (of FIG. 2).

6

Thus, application 110 may or may not interact with backend server 102 during the creation of the custom gesture profile or upon receiving a user-specified gesture. As stated previously, backend server 102 and/or application 110 may store the custom gesture profile. Accordingly, application 110 alone or in communication with backend server 102 may create the custom gesture profile. For example, in some embodiments, without communicating with backend server 102, application 110 may store and manage the custom gesture profile for a period of time (e.g., a period of time when backend server 102 is unavailable). During this period of time, application 110 may communicate with website server 104A hosting the website, for example, to send an interaction request for linking a user-specified gesture to a website-specified response and/or a direction message to perform the website-specified response. Alternatively, in some embodiments, application 110 may send the custom gesture profile to backend server 102 for approval before communicating with website 104A.

Along these lines, in some embodiments, after creating the custom gesture profile and receiving a user-specified gesture from the user, application 110 may send the gesture to backend server 102—which stores the custom gesture profile—for determining a corresponding website action. Application 110 may then receive the corresponding website action from backend server 102 and send the corresponding website action to website server 104A hosting the website to perform the website action. Alternatively, in some embodiments, upon receiving a user-specified gesture from the user, application 110 may use a locally stored custom gesture profile to determine a corresponding website action. After receiving or determining the website action, application 110 may then send a direction message to the website server 104A hosting the website to perform the website action.

In some embodiments, the website itself may provide default gestures to be used with website action descriptions 204, such that no new assignment of gestures need be made. In some embodiments, application 110 may need to make no changes to the website in order for the user to utilize the website-defined gestures. Application 110 may in turn provide a user with these website-defined gestures for performing specific website actions 204, such that the user can simply use those gestures that have already been defined. Application 110 may or may not permit the user to edit the website-defined gesture assignments. If the user is permitted to edit the website-defined gesture assignments, application 110 may override a website-specified gesture—associated with a specific website action—with a user-specified gesture. Alternatively, the website-defined gesture assignments may take the place of any user-defined gesture.

In some embodiments, by linking gestures to website actions, application 110 may provide additional or modified capabilities to the website. For example, application 110 may permit certain website-specified gestures on specific webpages. In contrast, application 110 may permit any user-specified gesture across any webpage of one or more websites. Further, application 110 may override certain website-specified gestures associated with designated website actions for user-specified gestures such that the designated website actions occur upon the user-specified gestures instead of the website-specified gestures.

After linking gestures to website actions, application 110 may provide a user interface for receiving the gestures. For example, in some embodiments, application 110 may provide a user interface in the form of an interactive overlay over all or part of the portion of the website shown on the display portion (e.g., touch screen interface 108A) of, for

example, user device **106A**. The interactive overlay may be invisible and permit a user to view the underlying website on the display portion (e.g., touch screen interface **108A**) of user device **106A**. In some embodiments, application **110** may dedicate a portion of user device **106A**'s display to receive the user gestures. Accordingly, website server **104A** may present the websites around this portion of the display of user device **106A**.

Accordingly, the interactive overlay may receive various gestures from the user. Upon receipt of a particular gesture via an interactive overlay, application **110** may first identify the intended gesture of the user. Application **110** may then determine the website action corresponding to the gestures. After determining the appropriate website action, application **110** may then send a direction message to website server **104A** hosting the website to perform the particular website action. The message may be sent over the designated link (e.g., a tag, a text path, and/or an identifier) so that the website can determine the appropriate website action to take.

FIGS. 3-6 illustrate user gestures **300**, **400**, **500A-C**, and **600** provided on websites **302**, **402**, **502**, and **602**, according to some embodiments. Websites **302**, **402**, **502**, and **602** can include one or more website features **304A-G**, **404A-G**, **504A-G**, and **604A-G** for interacting with the websites **302**, **402**, **502**, and **602**. Website features **304A-G**, **404A-G**, **504A-G**, and **604A-G** may correspond to performing various website actions with respect to website records **306A-D**, **406A-D**, **506A-D**, and **606A-D**. Website features **304A-G**, **404A-G**, **504A-G**, and **604A-G** may be buttons, links, forms, or any other component provided on the websites **302**, **402**, **502**, and **602**.

As stated previously, user gestures **300**, **400**, **500A-C**, and **600** may correspond respectively to website features **304A-G**, **404A-G**, **504A-G**, and **604A-G**. In turn, in some embodiments, user gestures **300**, **400**, **500A-C**, and **600** may correspond to the same underlying website action, such that multiple different gestures **300**, **400**, **500A-C**, and **600** can respectively result in the same website action. Additionally, user gestures **300**, **400**, **500A-C**, and **600** may correspond to a website action that is already provided for in website features **304A-G**, **404A-G**, **504A-G**, and **604A-G**. For example, as illustrated, website features **304A-G**, **404A-G**, **504A-G**, and **604A-G** may correspond to filters for viewing website records **306A-D**, **406A-D**, **506A-G**, and **606A-D**. Accordingly, referring to FIG. 3, user gesture **300A** may be a filter word—e.g., the year “2019”—that corresponds to website feature **304G**—e.g., the “Year” filter. Similarly, user gesture **300B** may be an indication of desired content—e.g., a circle or another informative mark—and correspond to feature **304G**—e.g., the “Year” filter. Thus, website **302** permits filtering by the year “2019” by the user providing gesture **300A** or **300B**, or by simply selecting the appropriate input within feature **304G**.

Further, in some embodiments, referring to FIGS. 4-6, user gesture **400**, **500A-C**, or **600** may perform website actions not already provided by website features **404A-G**, **504A-G**, and **604A-G**. For example, referring to FIGS. 4 and 5, when website **402** and **502** are capable of performing searches, one or more website features **404A-G** and **504A-G** may relate to search filters of website **402** and **502**. In response to website filters **404A-G** and **504A-G**, website **402** and **502** may present website records **406A-D** and **506A-D**. Accordingly, instead of interacting directly with website filters **404A-G** and **504A-G**, user gesture **400** and **500A-C** may permit a user to modify the website content **406A-G** and **506A-G**, respectively.

In some embodiments, referring to FIG. 4, user gesture **400** may relate to removing one or more website features **404A-G** and/or website records **406A-D** from website **402**. User gesture **400** may, for example, involve a user drawing an “X” symbol (or another known symbol designating removal) on a particular website filter **404A-G** and/or a particular record **406A-D**. In response, application **110** (of FIG. 1) can remove (or discard) the particular website feature **404A-G** and/or the particular website record **406A-D**. This can exclude information relating to the particular website feature **404A-G** and/or the particular record **406A-D** from the search. For example, as illustrated, the website feature **404A** can relate to providing search results within a designated radius from a particular location. Thus, removing website feature **404A** may result in removing this filtering limitation. Along these lines, application **110**'s removal of a particular website feature **404A-G** may result in website **402** presenting different website records **406A-D**.

Further, referring to FIG. 5, user gesture **500A-C** may relate to a desired aspect of website **502**. User gesture **500A-C** may relate to a user drawing a circle around website content of a particular website feature **504A-G** and/or a particular website record **506A-D**. For example, when a user provides user gesture **500A** upon website content (e.g., “Acura”) of a particular website feature **504C** (e.g., “Make”), website **502** may present website records **506A-D** relating to the selected website content filter. Similarly, when a user provides user gesture **500B** on website content (e.g., “2013”) of a particular website record **506D**, website **502** may present website records **506A-D** relating to the selected website content filter. Additionally, when a user provides user gesture **500C** around an entire website record **506C** (or at least a majority thereof), website **502** may present a new webpage relating to the selected website record **506C**.

Additionally, referring to FIG. 6, user gesture **600** may permit a user to move website features **604A-G** from one location to another location of website **602**. User gesture **600** may relate to a user, for example, pressing down on website feature **604B** for a predetermined time period and dragging website feature **604B** to a preferred location on website **602**. Accordingly, users may modify the layout of website **602** through one or more user gestures **600**.

Along these lines, although not illustrated, in an embodiment, user gesture **600** may perform a website action independent from website **402**. In doing so, a user gesture **600** may permit a user to perform one or more operations with respect to website **602**. For example, a user gesture **600** may permit bookmarking a webpage, printing a webpage, and navigating to a previously viewed webpage.

FIGS. 7 and 8 illustrate interactive windows **700** and **800** generated in response to user gestures provided on websites **702** and **602**, respectively, according to some embodiments. As discussed above, websites **702** and **802** can include one or more website features **704A-G** and **804A-G**, respectively, for interacting with the respective websites **702** and **802**. Further, various user gestures (not illustrated) may correspond to website features **704A-G** and **804A-G**. In turn, in some embodiments, some user gestures may correspond to the same website actions provided by features **704A-G** and **804A-G**.

For example, referring to FIG. 7, upon performing an initial gesture **706** (e.g., a two-finger circle), application **110** (of FIG. 1) may provide interactive window **700**. Interactive window **700** may include one or more macros **708** for user selection. Interactive window **700**'s macros **708** may correspond to one or more website features **704A-G** (e.g., website

filters). In some embodiments, as illustrated, macros **708** can be presented as a turntable. Interactive window **700** may thus permit a user to select one of macros **708** by continually performing the initial gesture (e.g., the two-finger circle—as shown by gesture **706**—to select a particular macro **708**. By doing so, the user can trigger the interactive window and select a particular macro **708** by performing the same gesture (e.g., without removing a finger). Further, as illustrated, interactive display **700** may present the macros as a turntable of options. Accordingly, the user can continually circle their fingers in either direction of the circle to turn the turntable of macros **708** in either direction and land on different macros **708**. In some embodiments, the user can select a desired macro **708** by removing one finger.

Referring to FIG. **8**, upon selecting a particular macro **708** in interactive window **700** (of FIG. **7**), application **110** (of FIG. **1**) may present interactive window **800**. Interactive window **800** may include one or more macros **808** for user selection. Like macros **708**, macros **808** may relate to one or more website features **804A-G**. In some embodiments, interactive window **800**'s macros **808** may be a subset of interactive window **700**'s macros **708** (of FIG. **7**). As illustrated, interactive window **700**'s macros **708** may include "Make," "Model," "Distance," "Trim," and "Price." Upon selection of the interactive window **700**'s macro **708** "Make," interactive window **800**'s macros **808** may include "Acura," "Audi," "BMW," "Chrysler," and "Ford." As such, in some embodiments, macros **808** may be sub-website features of website **802**.

As discussed above, the user may perform a particular gesture **706** to trigger the interactive window **700** and land on different macros **708** provided in the interactive window **700** (of FIG. **7**). In some embodiments, as also discussed above, the particular gesture **706** may be a two-finger circle. Accordingly, the user may select a particular macro **708** by removing a single finger. Thereafter, when application **110** (of FIG. **1**) presents interactive window **800**, the user may still have a single finger on a user interface. Accordingly, the user may move their finger to the left or right to land on different macros. The user may then remove their finger to select a desired macro **808**.

FIG. **9** is a flowchart for a method **900** for providing a gesture profile for a user to search a website, according to an embodiment. Method **900** can be performed by processing logic that can comprise hardware (e.g., circuitry, dedicated logic, programmable logic, microcode, etc.), software (e.g., instructions executing on a processing device), or a combination thereof. It is to be appreciated that not all steps may be needed to perform the disclosure provided herein. Further, some of the steps may be performed simultaneously or in a different order than shown in FIG. **9**, as will be understood by a person of ordinary skill in the art.

Method **900** shall be described with reference to FIGS. **1** and **2**. However, method **900** is not limited to that example embodiment.

In **902**, application **110** can maintain application-specified user gestures for application-specified website actions. A user may create a user profile for performing the same gestures across different websites and triggering the same website actions. Accordingly, in creating a user profile, application **110** may initially provide recommended application-defined gesture descriptions **202** for performing specific website actions **204**.

In **904**, application **110** can receive a user request for associating a user-specified gesture to a website action from a user device, such as user device **106A** or **106B**. Application **110** may permit a user to select a particular application-

defined gesture description **202** and/or an option to create a custom gesture. Upon selecting an option to create a custom gesture, application **110** may permit the user to create the gesture on the user device's touch screen interface (e.g., user device **106A**'s touch screen interface **108A** of FIG. **1**). Along these lines, in some embodiments, as illustrated, gestures descriptions **202** can be a user-provided freeform (e.g., a user provides the gestures on a touch interface of a user device) or user-inserted text. For example, the gesture description "City/State/Zip Code" can relate to a user's text input of a city, a state, and/or a zip code, the gesture description "Year" can relate a user's text input of a year, and the gesture description "Color" can relate to a user's input text of a color.

Application **110** may also permit a user to select a particular website action description **204** from a list of available website action descriptions. Therefore, application **110** may permit the user to associate any system-defined gesture description and/or user-defined gesture description with any website action description **204**. Application **110** may also permit the user to associate a select combination of gesture descriptions **202** and website action descriptions **204**. For example, for user-defined gesture action descriptions or system-defined gesture action descriptions, application **110** may permit the selection of a subset of website action descriptions and vice-versa.

In **906**, application **110** can send an interaction request to backend server **102** and/or website servers **104A** and **104B** to link the user gesture to the website action such that the backend server and/or website server **104A** and **104B** provide the website action. Upon receiving the interaction request to link user gestures to certain actions, backend server **102** and/or website server **104A**, for example, may determine whether to approve or deny the interaction request. After determining to approve the interaction request, backend server **102** and/or website server **104A** may send an acceptance message. Along with the acceptance message, backend server **102** and/or website server **104A** may provide a different link for each combination of the user-specified gestures, application-specified gestures, and website-specified gestures with the website actions. The link for each combination may be a tag, a text path, or an identifier.

In **908**, application **110** can receive an acceptance message from backend server **102** and/or website servers **104A** and **104B** that the user gesture has been successfully linked to the website action.

In **910**, application **110** can present an interactive overlay for receiving the user-specified gesture. The interactive overlay may cover over all or part of the portion of the website shown on the display portion (e.g., touch screen interface **108A**) of, for example, user device **106A**. The interactive overlay may be invisible and permit a user to view the underlying website on the display portion (e.g., touch screen interface **108A**) of user device **106A**. In some embodiments, application **110** may dedicate a portion of user device **106A**'s display to receive the user gestures. Accordingly, website server **104A** may present the websites around this portion of the display of user device **106A**.

In **912**, application **110** can send a direction message to the website to perform the particular website action. The message may be sent over the designated link (e.g., a tag, a text path, and/or an identifier) so that the website can determine the appropriate website action to take. Upon receipt of the direction message, the website may perform the website action corresponding to the user-specified gesture.

11

Various embodiments may be implemented, for example, using one or more well-known computer systems, such as computer system **1000** shown in FIG. **10**. One or more computer systems **1000** may be used, for example, to implement any of the embodiments discussed herein, as well as combinations and sub-combinations thereof.

Computer system **1000** may include one or more processors (also called central processing units, or CPUs), such as a processor **1004**. Processor **1004** may be connected to a communication infrastructure or bus **1006**.

Computer system **1000** may also include user input/output device(s) **1003**, such as monitors, keyboards, pointing devices, etc., which may communicate with communication infrastructure **1006** through user input/output interface(s) **1002**.

One or more of processors **1004** may be a graphics processing unit (GPU). In an embodiment, a GPU may be a processor that is a specialized electronic circuit designed to process mathematically intensive applications. The GPU may have a parallel structure that is efficient for parallel processing of large blocks of data, such as mathematically intensive data common to computer graphics applications, images, videos, etc.

Computer system **1000** may also include a main or primary memory **1008**, such as random access memory (RAM). Main memory **1008** may include one or more levels of cache. Main memory **1008** may have stored therein control logic (i.e., computer software) and/or data.

Computer system **1000** may also include one or more secondary storage devices or memory **1010**. Secondary memory **1010** may include, for example, a hard disk drive **1012** and/or a removable storage device or drive **1014**. Removable storage drive **1014** may be a floppy disk drive, a magnetic tape drive, a compact disk drive, an optical storage device, tape backup device, and/or any other storage device/drive.

Removable storage drive **1014** may interact with a removable storage unit **1018**. Removable storage unit **1018** may include a computer usable or readable storage device having stored thereon computer software (control logic) and/or data. Removable storage unit **1018** may be a floppy disk, magnetic tape, compact disk, DVD, optical storage disk, and/or any other computer data storage device. Removable storage drive **1014** may read from and/or write to removable storage unit **1018**.

Secondary memory **1010** may include other means, devices, components, instrumentalities or other approaches for allowing computer programs and/or other instructions and/or data to be accessed by computer system **1000**. Such means, devices, components, instrumentalities or other approaches may include, for example, a removable storage unit **1022** and an interface **1020**. Examples of the removable storage unit **1022** and the interface **1020** may include a program cartridge and cartridge interface (such as that found in video game devices), a removable memory chip (such as an EPROM or PROM) and associated socket, a memory stick and USB port, a memory card and associated memory card slot, and/or any other removable storage unit and associated interface.

Computer system **1000** may further include a communication or network interface **1024**. Communication interface **1024** may enable computer system **1000** to communicate and interact with any combination of external devices, external networks, external entities, etc. (individually and collectively referenced by reference number **1028**). For example, communication interface **1024** may allow computer system **1000** to communicate with external or remote

12

devices **1028** over communications path **1026**, which may be wired and/or wireless (or a combination thereof), and which may include any combination of LANs, WANs, the Internet, etc. Control logic and/or data may be transmitted to and from computer system **1000** via communication path **1026**.

Computer system **1000** may also be any of a personal digital assistant (PDA), desktop workstation, laptop or notebook computer, netbook, tablet, smart phone, smart watch or other wearable, appliance, part of the Internet-of-Things, and/or embedded system, to name a few non-limiting examples, or any combination thereof.

Computer system **1000** may be a client or server, accessing or hosting any applications and/or data through any delivery paradigm, including but not limited to remote or distributed cloud computing solutions; local or on-premises software (“on-premise” cloud-based solutions); “as a service” models (e.g., content as a service (CaaS), digital content as a service (DCaaS), software as a service (SaaS), managed software as a service (MSaaS), platform as a service (PaaS), desktop as a service (DaaS), framework as a service (FaaS), backend as a service (BaaS), mobile backend as a service (MBaaS), infrastructure as a service (IaaS), etc.); and/or a hybrid model including any combination of the foregoing examples or other services or delivery paradigms.

Any applicable data structures, file formats, and schemas in computer system **1000** may be derived from standards including but not limited to JavaScript Object Notation (JSON), Extensible Markup Language (XML), Yet Another Markup Language (YAML), Extensible Hypertext Markup Language (XHTML), Wireless Markup Language (WML), MessagePack, XML User Interface Language (XUL), or any other functionally similar representations alone or in combination. Alternatively, proprietary data structures, formats or schemas may be used, either exclusively or in combination with known or open standards.

In some embodiments, a tangible, non-transitory apparatus or article of manufacture comprising a tangible, non-transitory computer useable or readable medium having control logic (software) stored thereon may also be referred to herein as a computer program product or program storage device. This includes, but is not limited to, computer system **1000**, main memory **1008**, secondary memory **1010**, and removable storage units **1018** and **1022**, as well as tangible articles of manufacture embodying any combination of the foregoing. Such control logic, when executed by one or more data processing devices (such as computer system **1000**), may cause such data processing devices to operate as described herein.

Based on the teachings contained in this disclosure, it will be apparent to persons skilled in the relevant art(s) how to make and use embodiments of this disclosure using data processing devices, computer systems and/or computer architectures other than that shown in FIG. **10**. In particular, embodiments can operate with software, hardware, and/or operating system implementations other than those described herein.

It is to be appreciated that the Detailed Description section, and not any other section, is intended to be used to interpret the claims. Other sections can set forth one or more but not all exemplary embodiments as contemplated by the inventor(s), and thus, are not intended to limit this disclosure or the appended claims in any way.

While this disclosure describes exemplary embodiments for exemplary fields and applications, it should be understood that the disclosure is not limited thereto. Other

13

embodiments and modifications thereto are possible, and are within the scope and spirit of this disclosure. For example, and without limiting the generality of this paragraph, embodiments are not limited to the software, hardware, firmware, and/or entities illustrated in the figures and/or described herein. Further, embodiments (whether or not explicitly described herein) have significant utility to fields and applications beyond the examples described herein.

Embodiments have been described herein with the aid of functional building blocks illustrating the implementation of specified functions and relationships thereof. The boundaries of these functional building blocks have been arbitrarily defined herein for the convenience of the description. Alternate boundaries can be defined as long as the specified functions and relationships (or equivalents thereof) are appropriately performed. Also, alternative embodiments can perform functional blocks, steps, operations, methods, etc. using orderings different than those described herein.

References herein to “one embodiment,” “an embodiment,” “an example embodiment,” or similar phrases, indicate that the embodiment described can include a particular feature, structure, or characteristic, but every embodiment can not necessarily include the particular feature, structure, or characteristic. Moreover, such phrases are not necessarily referring to the same embodiment. Further, when a particular feature, structure, or characteristic is described in connection with an embodiment, it would be within the knowledge of persons skilled in the relevant art(s) to incorporate such feature, structure, or characteristic into other embodiments whether or not explicitly mentioned or described herein. Additionally, some embodiments can be described using the expression “coupled” and “connected” along with their derivatives. These terms are not necessarily intended as synonyms for each other. For example, some embodiments can be described using the terms “connected” and/or “coupled” to indicate that two or more elements are in direct physical or electrical contact with each other. The term “coupled,” however, can also mean that two or more elements are not in direct contact with each other, but yet still co-operate or interact with each other.

The breadth and scope of this disclosure should not be limited by any of the above-described exemplary embodiments, but should be defined only in accordance with the following claims and their equivalents.

What is claimed is:

1. A computer-implemented method, comprising:

receiving a first user instruction to associate a first action with a first user-specified gesture such that the first action occurs upon receipt of the first user-specified gesture, wherein the first user-specified gesture relates to a first user input on a display of a user device;

sending a first interaction request to a first website, the first website comprising a first website-specified response associated with a first website-specified user input, such that the first website-specified response is configured to occur upon receipt of the first website-specified user input, wherein the first interaction request includes a request of a first linking of the first user-specified gesture to the first website-specified response, and wherein the first linking is based on the first web site determining that the first action corresponds to the first website-specified response and permitting the first action upon the receipt of the first user-specified gesture; and

receiving a first acceptance message from the first website that indicates that the first user-specified gesture has been successfully linked to the first website-specified

14

response, wherein the first acceptance message includes at least one of a tag permitting access at the first website to the first website-specified response linked to the first user-specified gesture, a text path permitting access at the first web site to the first website-specified response linked to the first user-specified gesture, or an identifier permitting access at the first website to the first website-specified response linked to the first user-specified gesture.

2. The computer-implemented method of claim 1, the receiving of the first user instruction comprising:

receiving a first user selection of the first action for associating with the first user-specified gesture.

3. The computer-implemented method of claim 2, the receiving the first user instruction further comprising:

receiving the first user input on the display of the user device such that the first user-specified gesture is manually drawn onto the display of the user device, wherein the first interaction request is based on the first user input being provided on the display of the user device.

4. The computer-implemented method of claim 3, the receiving the first user instruction further comprising:

presenting a list of available actions and a list of available gestures;

receiving the first user selection of the first action from the list of available actions; and

receiving a second user selection of the first user-specified gesture from the list of available gestures.

5. The computer-implemented method of claim 4, further comprising:

overriding a first application-specified gesture associated with the first action with the first user-specified gesture based on the second user selection of the first user-specified gesture such that the first website-specified response occurs upon receipt of the first user-specified gesture instead of upon receipt of the first application-specified gesture.

6. The computer-implemented method of claim 1, further comprising:

creating a custom user profile comprising an association between the first user-specified gesture and the first action.

7. The computer-implemented method of claim 6, wherein the association between the first user-specified gesture and the first action defined in the custom user profile is editable by a user.

8. The computer-implemented method of claim 1, further comprising:

providing an interactive overlay to the first website based on the receiving of the first acceptance message, wherein the interactive overlay is configured to receive the first user-specified gesture and send an instruction to the first website to trigger the first action upon receipt of the first user-specified gesture.

9. The computer-implemented method of claim 1, further comprising: sending a user interface instruction to the first website,

wherein the user interface instruction instructs the first website to dedicate a portion of the display of the user device presenting the first website for receiving the first user-specified gesture.

10. The computer-implemented method of claim 1, wherein: the first website comprises a first webpage and a second webpage, and

15

the first website permits receipt of a first website-specified user input on the first webpage and receipt of the first user-specified gesture on the first webpage and the second webpage.

11. The computer-implemented method of claim 1, wherein:

the first website comprises a first website-specified gesture associated with the first action, and

the first website overrides the first website-specified gesture with the first user-specified gesture such that the first action occurs upon receipt of the first user-specified gesture instead of upon receipt of the first website-specified gesture.

12. The computer-implemented method of claim 1, wherein the first action relates to moving a display element of the first website or performing a first website-specified function provided upon the display of the user device.

13. The computer-implemented method of claim 1, further comprising:

sending the first interaction request to a second website, the second website comprising a second website-specified response associated with a second website-specified user input, such that the second website-specified response is configured to occur upon receipt of the second website-specified user input, wherein the first interaction request includes a request of a second linking of the first user-specified gesture to the second website-specified response, and wherein the second linking is based on the second website determining that the first action corresponds to the second website-specified response and permitting the first action upon receipt of the first user-specified gesture; and

receiving a second acceptance message from the first website that indicates that the first user-specified gesture has been successfully linked to the second website-specified response.

14. The computer-implemented method of claim 1, further comprising:

receiving a second user instruction to associate a second action with a second gesture such that the second action occurs upon receipt of the second gesture, wherein the second gesture relates to a second user input on the display of the user device,

creating a second interaction request based on the second user instruction;

sending the second interaction request to the first website, wherein the first website further comprises a second website-specified response associated with a second website-specified user input such that the second website-specified response is configured to occur upon receipt of the second website-specified user input, wherein the second interaction request includes a request of a second linking of the second gesture to the second website-specified response, and wherein the second linking is based on the first website determining that the second action corresponds to the second website-specified response and permitting the second action upon the receipt of the second gesture;

receiving a second acceptance message from the first website that indicates that the second gesture has been successfully linked to the first website-specified response; and

sending an interactive overlay to the first website, wherein the interactive overlay is configured to identify receipt of the first user-specified gesture and the second gesture.

16

15. The computer-implemented method of claim 1, wherein the first action is the first website-specified response such that the first website-specified response occurs upon receipt of the first user-specified gesture.

16. The computer-implemented method of claim 1, wherein the first website presents a plurality of records and a website feature such that the website feature corresponds to performing a website action with respect to the plurality of records upon selection of the website feature, the method further comprising:

providing an interactive overlay for receiving the first user-specified gesture;

receiving the first user-specified gesture;

after receiving the first user-specified gesture, presenting the website feature for a first user selection.

17. The computer-implemented method of claim 16, wherein the website feature includes one or more sub-website features, the method further comprising:

receiving the first user selection of the website feature,

presenting the one or more sub-website features for second user selection.

18. The computer-implemented method of claim 17, wherein the first action relates to selecting a sub-website feature.

19. A system, comprising:

a memory; and

a processor coupled to the memory and configured to:

receive a first user instruction to associate a first action with a first user-specified gesture such that the first action occurs upon receipt of the first user-specified gesture, wherein the first user-specified gesture relates to a first user input on a display of a user device;

send a first interaction request to a first website, the first website comprising a first website-specified response associated with a first website-specified user input such that the first website-specified response is configured to occur upon receipt of the first website-specified user input, wherein the first interaction request requests a first linking of the first user-specified gesture to the first website-specified response, and wherein the first linking is based on the first website determining that the first action corresponds to the first website-specified response and permitting the first action upon the receipt of the first user-specified gesture; and

receive a first acceptance message from the first website that indicates that the first user-specified gesture has been successfully linked to the first website-specified response, wherein the first acceptance message includes at least one of a tag permitting access at the first website to the first website-specified response linked to the first user-specified gesture, a text path permitting access at the first web site to the first website-specified response linked to the first user-specified gesture, or an identifier permitting access at the first website to the first website-specified response linked to the first user-specified gesture.

20. A non-transitory computer-readable device having instructions stored thereon that, when executed by at least one computing device, cause the at least one computing device to perform operations comprising:

receiving a first user instruction to associate a first action with a first user-specified gesture such that the first action occurs upon receipt of the first user-specified gesture, wherein the first user-specified gesture relates to a first user input on a display of a user device;

sending a first interaction request to a first website, the first website comprising a first website-specified

17

response associated with a first website-specified user
input such that the first website-specified response is
configured to occur upon receipt of the first website-
specified user input, wherein the first interaction
request requests a first linking of the first user-specified 5
gesture to the first website-specified response, and
wherein the first linking is based on the first website
determining that the first action corresponds to the first
website-specified response and permitting the first
action upon the receipt of the first user-specified ges- 10
ture; and
receiving a first acceptance message from the first website
that indicates that the first user-specified gesture has
been successfully linked to the first website-specified
response, wherein the first acceptance message 15
includes at least one of a tag permitting access at the
first website to the first website-specified response
linked to the first user-specified gesture, a text path
permitting access at the first web site to the first
website-specified response linked to the first user- 20
specified gesture, or an identifier permitting access at
the first website to the first website-specified response
linked to the first user-specified gesture.

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18